

Docket No. AUS9-2000-0414-US1

ABSTRACT OF THE DISCLOSURE

**5 ENHANCED INTERFACE THERMOELECTRIC COOLERS WITH ALL-METAL
 TIPS**

10 A thermoelectric device with improved efficiency is
provided. In one embodiment, the thermoelectric device
includes a first thermoelement and a second thermoelement
15 electrically coupled to the first thermoelement. An
array of first tips are in close physical proximity to,
but not necessarily in physical contact with, the first
thermoelement at a first set of discrete points. An
array of second tips are in close physical proximity to,
15 but not necessarily in physical contact with, the second
thermoelement at a second set of discrete points. The
first and second conical are constructed entirely from
metal, thus reducing parasitic resistances.